BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.

Est Cost: =300.00Lakhs

Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
			m	m	m			
KSRRB 200-8. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of Thorney jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications. (P.No.138, I.No.18.11 of PW, P&IWTD SR 2018-19)								
Railway mens colony	Sqm							
1st Main Road								
Ch 0-290 BS Slab Drain		2	290.00	1.20	--	696.00		
2nd Main Road								
Ch 0-130		2	130.00	1.20	--	312.00		
Cross Road 1 From temple								
Ch 0-220		2	220.00	1.20	--	528.00		
Cross Road 2								
Ch 0-300		2	300.00	1.20	--	720.00		
Cross Road 2A								
Ch 0-40		2	40.00	1.20	--	96.00		
Cross Road 2B								
Ch 0-20		2	20.00	1.20	--	48.00		
Cross Road 2C								
Ch 0-50		2	50.00	1.20	--	120.00		
Cross Road 3								
Ch 0-165		2	165.00	1.20	--	396.00		
Cross Road 4								
Ch 0-65		2	65.00	1.20	--	156.00		
Cross Road 7 Hegdenagar								
Ch 0-235		2	235.00	1.20	--	564.00		
Cross Road 5 Hegdenagar								
Ch 0-55		2	55.00	1.20	--	132.00		
MCH Layout 4th Cross								
Ch 0-133		2	133.00	1.20	--	319.20		
						4087.20	**10.60**	**43324.32**
A.Basic rate	**10.00**							
B.Area Weightage 6%	**0.60**							
Final Rate	**10.60**							
2 Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27, I.No.5.33 of PW, P&IWTD SR 2018-19)								
Drain Desilt	Sqm							
Railway mens colony								
1st Main Road								
Ch 0-290 BS Slab Drain		2	290.00	1.50	--	870.00		
2nd Main Road								
Ch 0-130		2	130.00	1.50	--	390.00		
Cross Road 1 From temple								
Ch 0-220		2	220.00	1.50	--	660.00		
Cross Road 2								
Ch 0-300		2	300.00	1.50	--	900.00		
Cross Road 2A								
Ch 0-40		2	40.00	1.50	--	120.00		
Cross Road 2B								
Ch 0-20		2	20.00	1.50	--	60.00		
Cross Road 2C								
Ch 0-50		2	50.00	1.50	--	150.00		
Cross Road 3								
Ch 0-165		2	165.00	1.50	--	495.00		
Cross Road 4								

	Ch 0-65		2	65.00	1.50	--	195.00		
	Cross Road 7 Hegdenagar								
	Ch 0-235		2	235.00	1.50	--	705.00		
	Cross Road 5 Hegdenagar								
	Ch 0-55		2	55.00	1.50	--	165.00		
	MCH Layout 4th Cross								
	Ch 0-133		2	133.00	1.50	--	399.00		
	30%BS slab is Damaged / missing						**5109.00**		
							-1532.70		
							3576.30	**111.30**	**398042.19**
	A.Basic rate	**105.00**							
	B.Area Weightage 6%	**6.30**							
	Final Rate	**111.30**							
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete. (P.No.27, I.No.5.31.1 of PW, P&IWTD SR 2018-19)								
	30%BS slab is Damaged / missing	Sqm					1532.70		
	New BS Drain								
	Cross Road 1		2	82.00	1.50		246.00		
							1778.70	**742.00**	**1319795.40**
	A.Basic rate	**700.00**							
	B.Area Weightage 6%	**42.00**							
	Final Rate	**742.00**							
4	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.143, I.No.19.1 of PW, P&IWTD SR 2018-19)								
	Drain Desilt	Cum							
	Railway mens colony								
	1st Main Road								
	Ch 0-290 BS **Slab Drain**		2	290.00	0.60	0.40	139.20		
	2nd Main Road								
	Ch 0-130		2	130.00	0.60	0.40	62.40		
	Cross Road 1 From temple								
	Ch 0-220		2	220.00	0.60	0.40	105.60		
	Cross Road 2								
	Ch 0-300		2	300.00	0.60	0.40	144.00		
	Cross Road 2A								
	Ch 0-40		2	40.00	0.60	0.40	19.20		
	Cross Road 2B								
	Ch 0-20		2	20.00	0.60	0.40	9.60		
	Cross Road 2C								
	Ch 0-50		2	50.00	0.60	0.40	24.00		
	Cross Road 3								
	Ch 0-165		2	165.00	0.60	0.40	79.20		
	Cross Road 4								
	Ch 0-65		2	65.00	0.60	0.40	31.20		
	Cross Road 7 Hegdenagar								
	Ch 0-235		2	235.00	0.60	0.40	112.80		
	Cross Road 5 Hegdenagar								
	Ch 0-55		2	55.00	0.60	0.40	26.40		
	MCH Layout 4th Cross								
	Ch 0-133		2	133.00	0.60	0.40	63.84		
	New BS Drain								
	Cross Road 1		2	82.00	0.60	0.40	39.36		
	Overburden Earth		15	2.50	2.10	0.20	15.75		
			8	2.20	1.80	0.20	6.34		
			5	2.60	2.00	0.20	5.20		
			4	3.00	1.50	0.20	3.60		

	Earthwork For Kerb							
	Railway mens colony							
	1st Main Road							
	Ch 0-290 BS Slab Drain	2	290.00	0.25	0.15	145.00		
	2nd Main Road							
	Ch 0-130	2	130.00	0.25	0.15	65.00		
	Cross Road 1 From temple							
	Ch 0-220	2	220.00	0.25	0.15	110.00		
	Cross Road 2							
	Ch 0-300	2	300.00	0.25	0.15	150.00		
	Cross Road 2A							
	Ch 0-40	2	40.00	0.25	0.15	20.00		
	Cross Road 2B							
	Ch 0-20	2	20.00	0.25	0.15	10.00		
	Cross Road 2C							
	Ch 0-50	2	50.00	0.25	0.15	25.00		
	Cross Road 3							
	Ch 0-165	2	165.00	0.25	0.15	82.50		
	Cross Road 4							
	Ch 0-65	2	65.00	0.25	0.15	32.50		
	Cross Road 7 Hegdenagar							
	Ch 0-235	2	235.00	0.25	0.15	117.50		
	Cross Road 5 Hegdenagar							
	Ch 0-55	2	55.00	0.25	0.15	27.50		
	MCH Layout 4th Cross							
	Ch 0-133	2	133.00	0.25	0.15	66.50		
	New BS Drain							
	Cross Road 1	2	82.00	0.25	0.15	41.00		
	For Flagging Coarse							
	Railway mens colony							
	1st Main Road							
	Ch 0-290 BS Slab Drain	4	290.00	0.20	0.10	232.00		
	2nd Main Road							
	Ch 0-130	4	130.00	0.20	0.10	104.00		
	Cross Road 1 From temple							
	Ch 0-220	4	220.00	0.20	0.10	176.00		
	Cross Road 2							
	Ch 0-300	4	300.00	0.20	0.10	240.00		
	Cross Road 2A							
	Ch 0-40	4	40.00	0.20	0.10	32.00		
	Cross Road 2B							
	Ch 0-20	4	20.00	0.20	0.10	16.00		
	Cross Road 2C							
	Ch 0-50	4	50.00	0.20	0.10	40.00		
	Cross Road 3							
	Ch 0-165	4	165.00	0.20	0.10	132.00		
	Cross Road 4							
	Ch 0-65	4	65.00	0.20	0.10	52.00		
	Cross Road 7 Hegdenagar							
	Ch 0-235	4	235.00	0.20	0.10	188.00		
	Cross Road 5 Hegdenagar							
	Ch 0-55	4	55.00	0.20	0.10	44.00		
	MCH Layout 4th Cross							
	Ch 0-133	4	133.00	0.20	0.10	106.40		
	New BS Drain							
	Cross Road 1	4	82.00	0.20	0.10	65.60		
	Railway mens colony							
	New Culvert							
		11	8.00	1.30	1.10	125.84		
		11	9.00	1.30	1.10	141.57		
						3475.60	**252.49**	**877560.19**

	A.Basic rate	**130.00**							
	B.Loading and unloading with 20km lead= 57+2.0x1.28x20 = 108.2	**108.20**							
	C (Area Weightage 6%)	**14.29**							
	Final Rate	**252.49**							
5	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 (P.No.222, I.No.27.18 of PW,P&IWTD S.R 2018-19)								
	For Bed Concrete	Cum							
	Flagging Course / Raising of BS Drain								
	Railway mens colony								
	1st Main Road								
	Ch 0-290 BS Slab Drain		4	290.00	0.15	0.10	17.40		
	2nd Main Road								
	Ch 0-130		4	130.00	0.15	0.10	7.80		
	Cross Road 1 From temple								
	Ch 0-220		4	220.00	0.15	0.10	13.20		
	Cross Road 2								
	Ch 0-300		4	300.00	0.15	0.10	18.00		
	Cross Road 2A								
	Ch 0-40		4	40.00	0.15	0.10	2.40		
	Cross Road 2B								
	Ch 0-20		4	20.00	0.15	0.10	1.20		
	Cross Road 2C								
	Ch 0-50		4	50.00	0.15	0.10	3.00		
	Cross Road 3								
	Ch 0-165		4	165.00	0.15	0.10	9.90		
	Cross Road 4								
	Ch 0-65		4	65.00	0.15	0.10	3.90		
	Cross Road 7 Hegdenagar								
	Ch 0-235		4	235.00	0.15	0.10	14.10		
	Cross Road 5 Hegdenagar								
	Ch 0-55		4	55.00	0.15	0.10	3.30		
	MCH Layout 4th Cross								
	Ch 0-133		4	133.00	0.15	0.10	7.98		
	New BS Drain								
	Cross Road 1		4	82.00	0.15	0.10	4.92		
	Pcc For Kerb								
	Railway mens colony								
	1st Main Road								
	Ch 0-290 BS Slab Drain		2	290.00	0.25	0.10	14.50		
	2nd Main Road								
	Ch 0-130		2	130.00	0.25	0.10	6.50		
	Cross Road 1 From temple								
	Ch 0-220		2	220.00	0.25	0.10	11.00		
	Cross Road 2								
	Ch 0-300		2	300.00	0.25	0.10	15.00		
	Cross Road 2A								
	Ch 0-40		2	40.00	0.25	0.10	2.00		
	Cross Road 2B								
	Ch 0-20		2	20.00	0.25	0.10	1.00		
	Cross Road 2C								
	Ch 0-50		2	50.00	0.25	0.10	2.50		
	Cross Road 3								

	Ch 0-165		2	165.00	0.25	0.10	8.25		
	Cross Road 4								
	Ch 0-65		2	65.00	0.25	0.10	3.25		
	Cross Road 7 Hegdenagar								
	Ch 0-235		2	235.00	0.25	0.10	11.75		
	Cross Road 5 Hegdenagar								
	Ch 0-55		2	55.00	0.25	0.10	2.75		
	MCH Layout 4th Cross								
	Ch 0-133		2	133.00	0.25	0.10	6.65		
	New BS Drain								
	Cross Road 1		2	82.00	0.25	0.10	4.10		
	For Rcc Road								
	Cross Road 7A Hegdenagar								
	Ch0-46		1	46.00	5.00	0.15	34.50		
	Cross Road 7B Hegdenagar								
	Ch0-55		1	55.00	6.00	0.15	49.50		
	Cross Road 1								
	Ch0-82		1	82.00	5.50	0.15	67.65		
	Gap Concrete B/T kerb & Slab								
	1st Main Road								
	Ch 0-290 BS Slab Drain		2	290.00	0.15	0.10	8.70		
	2nd Main Road								
	Ch 0-130		2	130.00	0.15	0.10	3.90		
	Cross Road 1 From temple								
	Ch 0-220		2	220.00	0.15	0.10	6.60		
	Cross Road 2								
	Ch 0-300		2	300.00	0.15	0.10	9.00		
	Cross Road 2A								
	Ch 0-40		2	40.00	0.15	0.10	1.20		
	Cross Road 2B								
	Ch 0-20		2	20.00	0.15	0.10	0.60		
	Cross Road 2C								
	Ch 0-50		2	50.00	0.15	0.10	1.50		
	Cross Road 3								
	Ch 0-165		2	165.00	0.15	0.10	4.95		
	Cross Road 4								
	Ch 0-65		2	65.00	0.15	0.10	1.95		
	Cross Road 7 Hegdenagar								
	Ch 0-235		2	235.00	0.15	0.10	7.05		
	Cross Road 5 Hegdenagar								
	Ch 0-55		2	55.00	0.15	0.10	1.65		
	MCH Layout 4th Cross								
	Ch 0-133		2	133.00	0.15	0.10	3.99		
	New BS Drain								
	Cross Road 1		2	82.00	0.15	0.10	2.46		
	Railway mens colony								
	New Culvert								
			11	8.00	0.90	0.15	11.88		
			11	9.00	0.90	0.15	13.37		
							426.80	**5421.90**	**2314039.81**
	A.Basic rate	**5115.00**							
	B.Area Weightage 6%	**306.90**							
	Final Rate	**5421.90**							

6	KSRB 5-11 : Providing and constructing load bearing wall with having block density not less than 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials labour charegs, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 .-do- solid concrete blocks of size 400x150x200 mm (Page No.27. Iitem no.5.27.2 of KPWD S.R Bangalore Circle (2018-19)									
	Railway mens colony	**Sqm**								
	1st Main Road									
	Ch 0-290 BS Slab Drain	2	2	290.00		0.40	464.00			
	2nd Main Road									
	Ch 0-130	2	2	130.00		0.40	208.00			
	Cross Road 1 From temple									
	Ch 0-220	2	2	220.00		0.40	352.00			
	Cross Road 2									
	Ch 0-300	2	2	300.00		0.40	480.00			
	Cross Road 2A									
	Ch 0-40	2	2	40.00		0.40	64.00			
	Cross Road 2B									
	Ch 0-20	2	2	20.00		0.40	32.00			
	Cross Road 2C									
	Ch 0-50	2	2	50.00		0.40	80.00			
	Cross Road 3									
	Ch 0-165	2	2	165.00		0.40	264.00			
	Cross Road 4									
	Ch 0-65	2	2	65.00		0.40	104.00			
	Cross Road 7 Hegdenagar									
	Ch 0-235	2	2	235.00		0.40	376.00			
	Cross Road 5 Hegdenagar									
	Ch 0-55 -	2	2	55.00		0.40	88.00			
	MCH Layout 4th Cross									
	Ch 0-133	2	2	133.00		0.40	212.80			
	New BS Drain									
	Cross Road 1	2	2	82.00		0.40	131.20			
	A.Basic rate	**953.00**					**2856.00**	**1010.18**	**2885074.08**	
	B.Area Weightage 6%	**57.18**								
	Final Rate	**1010.18**								
7	KSRB 4-1.1: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No.4.1 of PW,P&IWTD S.R 2018-19)									
	Coping	Cum								
	Railway mens colony									
	1st Main Road									
	Ch 0-290 BS Slab Drain		4	290.00	0.15	0.10	17.40			
	2nd Main Road									
	Ch 0-130		4	130.00	0.15	0.10	7.80			
	Cross Road 1 From temple									
	Ch 0-220		4	220.00	0.15	0.10	13.20			
	Cross Road 2									
	Ch 0-300		4	300.00	0.15	0.10	18.00			
	Cross Road 2A									
	Ch 0-40		4	40.00	0.15	0.10	2.40			
	Cross Road 2B									
	Ch 0-20		4	20.00	0.15	0.10	1.20			
	Cross Road 2C									
	Ch 0-50		4	50.00	0.15	0.10	3.00			
	Cross Road 3									
	Ch 0-165		4	165.00	0.15	0.10	9.90			
	Cross Road 4									

	Ch 0-65		4	65.00	0.15	0.10	3.90		
	Cross Road 7 Hegdenagar								
	Ch 0-235		4	235.00	0.15	0.10	14.10		
	Cross Road 5 Hegdenagar								
	Ch 0-55		4	55.00	0.15	0.10	3.30		
	MCH Layout 4th Cross								
	Ch 0-133		4	133.00	0.15	0.10	7.98		
	New BS Drain								
	Cross Road 1		4	82.00	0.15	0.10	4.92		
	Ramp Concrete for Culvert	2	11	8.00	1.00	0.15	26.40		
		2	11	9.00	1.00	0.15	29.70		
							163.20	**5599.98**	**913916.74**
	A.Basic rate	**5283.00**							
	B.Area Weightage 6%	**316.98**							
	Final Rate	**5599.98**							
8	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.16, I.No.4.28 of PW, P&IWTD SR 2018-19)								
	Railway mens colony	Sqm							
	New Culvert								
		2	11	8.00		0.25	44.00		
		2	11	9.00		0.25	49.50		
							93.50	**273.48**	**25570.38**
	A.Basic rate	**258.00**							
	B.Area Weightage 6%	**15.48**							
	Final Rate	**273.48**							
9	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.16, I.No.4.31 of PW,P&IWTD SR 2018-19)								
	Railway mens colony	Sqm							
	New Culvert								
		4	11	8.00		0.70	246.40		
		4	11	9.00		0.70	277.20		
							523.60	**379.48**	**198695.73**
	A.Basic rate	**358.00**							
	B.Area Weightage 6%	**21.48**							
	Final Rate	**379.48**							
10	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges) Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary beams. (P.No.18, I.No.4.48 of PW, P&IWTD SR 2018-19)								
	Railway mens colony	Cum							
	New Culvert								
	Bottom Slab								
			11	8.00	1.10	0.25	24.200		
			11	9.00	1.10	0.25	27.225		
	Side Wall								
		2	11	8.00	0.25	0.70	30.800		
		2	11	9.00	0.25	0.70	34.650		
							116.88	**5770.64**	**674443.55**
	A.Basic rate	**5444.00**							
	B.Area Weightage 6%	**326.64**							

	Final Rate	**5770.64**							
11	KSRB - 4.9.2: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. (P.No.18, I.No.4.46.2 of PW, P&IWTD SR 2018-19)								
		Tonne							
	Consider 80Kgs/cum for culvert			116.88	0.080	--	9.35		
							9.35	**75223.96**	**703344.03**
	A.Basic rate	**70966.00**							
	B.Area Weightage 6%	**4257.96**							
	Total	**75223.96**							
12	Providing and fixing **RCC Precast cover slab of 100mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Cover Slab	Sqm							
	Railway mens colony								
	1st Main Road								
	Ch 0-290 BS Slab Drain		2	290.00	0.90		522.00		
	2nd Main Road								
	Ch 0-130		2	130.00	0.90		234.00		
	Cross Road 1 From temple								
	Ch 0-220		2	220.00	0.90		396.00		
	Cross Road 2								
	Ch 0-300		2	300.00	0.90		540.00		
	Cross Road 2A								
	Ch 0-40		2	40.00	0.90		72.00		
	Cross Road 2B								
	Ch 0-20		2	20.00	0.90		36.00		
	Cross Road 2C								
	Ch 0-50		2	50.00	0.90		90.00		
	Cross Road 3								
	Ch 0-165		2	165.00	0.90		297.00		
	Cross Road 4								
	Ch 0-65		2	65.00	0.90		117.00		
	Cross Road 7 Hegdenagar								
	Ch 0-235		2	235.00	0.90		423.00		
	Cross Road 5 Hegdenagar								
	Ch 0-55		2	55.00	0.90		99.00		
	MCH Layout 4th Cross								
	Ch 0-133		2	133.00	0.90		239.40		
	New BS Drain								
	Cross Road 1		2	82.00	0.90		147.60		
							3213.00	**2337.00**	**7508781.00**
	Data Rate	**2337.00**							
13	Providing and fixing **RCC Precast cover slab of 250mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Cover	Sqm							
	New Culvert								
			11	8.00	1.20		105.60		
			11	9.00	1.20		118.80		
							224.40	**5900.00**	**1323960.00**
	Data Rate	5900.00							

14	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M20 (at 300Kg per cum coarse aggregate @ 0.64cum and fine aggregate @ 0.43cum) ((P.No.176, I.No.22.6.2 of PW,P&IWTD SR 2018-19)								
	For Rcc Road	Cum							
	Cross Road 7A Hegdenagar								
	Ch0-46		1	46.00	5.00	0.15	34.50		
	Cross Road 7B Hegdenagar								
	Ch0-55		1	55.00	6.00	0.15	49.50		
	Cross Road 1								
	Ch0-82		1	82.00	5.50	0.15	67.65		
							151.65	**5128.28**	**777703.66**
	A.Basic rate	**4838.00**							
	B.Area Weightage 6%	**290.28**							
	Final Rate	**5128.28**							
15	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.174, I.No.22.7 of PW, P&IWTD SR 2018-19)								
	For Rcc Road	Sqm							
	Cross Road 7A Hegdenagar								
	Ch0-46		1	46.00	5.00	--	230.00		
	Cross Road 7B Hegdenagar								
	Ch0-55		1	55.00	6.00	--	330.00		
	Cross Road 1								
	Ch0-82		1	82.00	5.50	--	451.00		
							1011.00	**72.08**	**72872.88**
	A.Basic rate	**68.00**							
	B.Area Weightage 6%	**4.08**							
	Final Rate	**72.08**							
16	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. (P.No.27, I.No.5.30 of PW,P&IWTD S.R 2018-19)								
		m							
	Railway mens colony								
	1st Main Road								
	Ch 0-290 BS Slab Drain		2	290.00	--	/0.45	1289.00		
	2nd Main Road								
	Ch 0-130		2	130.00	--	/0.45	578.00		
	Cross Road 1 From temple								
	Ch 0-220		2	220.00	--	/0.45	978.00		
	Cross Road 2								
	Ch 0-300		2	300.00	--	/0.45	1333.00		
	Cross Road 2A								
	Ch 0-40		2	40.00	--	/0.45	178.00		
	Cross Road 2B								
	Ch 0-20		2	20.00	--	/0.45	89.00		
	Cross Road 2C								
	Ch 0-50		2	50.00	--	/0.45	222.00		
	Cross Road 3								

	Ch 0-165		2	165.00	--	/0.45	733.00		
	Cross Road 4								
	Ch 0-65		2	65.00	--	/0.45	289.00		
	Cross Road 7 Hegdenagar								
	Ch 0-235		2	235.00	--	/0.45	1044.00		
	Cross Road 5 Hegdenagar								
	Ch 0-55		2	55.00	--	/0.45	244.00		
	MCH Layout 4th Cross								
	Ch 0-133		2	133.00	--	/0.45	591.00		
	New BS Drain								
	Cross Road 1		2	82.00	--	/0.45	364.00		
							7932.00	**432.48**	**3430431.36**
	A.Basic rate	**408.00**							
	B.Area Weightage 6%	**24.48**							
	Final Rate	**432.48**							
17	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.180, I.No. 24.1 of PW,P&IWTD SR 2018-19)								
	Kerb Paiting	Sqm							
	Railway mens colony								
	1st Main Road								
	Ch 0-290 BS Slab Drain		2	290.00	--	0.35	203.00		
	2nd Main Road								
	Ch 0-130		2	130.00	--	0.35	91.00		
	Cross Road 1 From temple								
	Ch 0-220		2	220.00	--	0.35	154.00		
	Cross Road 2								
	Ch 0-300		2	300.00	--	0.35	210.00		
	Cross Road 2A								
	Ch 0-40		2	40.00	--	0.35	28.00		
	Cross Road 2B								
	Ch 0-20		2	20.00	--	0.35	14.00		
	Cross Road 2C								
	Ch 0-50		2	50.00	--	0.35	35.00		
	Cross Road 3								
	Ch 0-165		2	165.00	--	0.35	115.50		
	Cross Road 4								
	Ch 0-65		2	65.00	--	0.35	45.50		
	Cross Road 7 Hegdenagar								
	Ch 0-235		2	235.00	--	0.35	164.50		
	Cross Road 5 Hegdenagar								
	Ch 0-55		2	55.00	--	0.35	38.50		
	MCH Layout 4th Cross								
	Ch 0-133		2	133.00	--	0.35	93.10		
	New BS Drain								
	Cross Road 1		2	82.00	--	0.35	57.40		
							1249.50	**84.80**	**105957.60**
	A.Basic rate	**80.00**							
	B.Area Weightage 6%	**4.80**							
	Final Rate	**84.80**							
18	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2018-19)								
	For Rcc Road	Cum							
	Cross Road 7A Hegdenagar								
	Ch0-46		1	46.00	5.00	0.25	57.50		

	Cross Road 7B Hegdenagar								
	Ch0-55		1	55.00	6.00	0.25	82.50		
	Cross Road 1								
	Ch0-82		1	82.00	5.50	0.25	112.75		
							252.75	**151.66**	**38332.07**
	A.Basic rate	**41.00**							
	B.Loading and unloading with 20km lead= 57+2.0x1.28x20 = 108.2	**108.20**							
	B.Area Weightage 6%	**2.46**							
	Final Rate	**151.66**							
19	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.155, I.No.20.18 of PW,P&IWTD SR 2018-19)								
	For Rcc Road	Cum							
	Cross Road 7A Hegdenagar								
	Ch0-46		1	46.00	5.00	0.15	34.50		
	Cross Road 7B Hegdenagar								
	Ch0-55		1	55.00	6.00	0.15	49.50		
	Cross Road 1								
	Ch0-82		1	82.00	5.50	0.15	67.65		
							151.65	**2001.28**	**303494.11**
	A.Basic rate	**1888.00**							
	B.Area Weightage 6%	**113.28**							
	Final Rate	**2001.28**							
20	Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in ordinary soil, exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications.**(P.No.6, I.No.2.1) (SR of PWD)**								
	Railway mens colony	Cum							
	Water Line Connection								
	1st Main Road		1	290.00	0.30	0.70	60.90		
	2nd Main Road		1	130.00	0.30	0.70	27.30		
	Cross Road 1 From temple		1	220.00	0.30	0.70	46.20		
	Cross Road 2		1	300.00	0.30	0.70	63.00		
	Cross Road 2A		1	40.00	0.30	0.70	8.40		
	Cross Road 2B		1	20.00	0.30	0.70	4.20		
	Cross Road 2C		1	50.00	0.30	0.70	10.50		
	Cross Road 3		1	165.00	0.30	0.70	34.65		
	Cross Road 4		1	65.00	0.30	0.70	13.65		
							268.80	**256.47**	**68939.00**
	Basic rate	249.00							
	Area Weightage3%	7.47							
	Final Rate	**256.47**							
21	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 160mm outer dia.(P.No.77,sI.No.11.56.4 of PW, P&IWTD SR 2018-19								
	Railway mens colony	Rmtr							
	Water Line Connection								
	1st Main Road		1	290.00	--	--	290.00		
	2nd Main Road		1	130.00	--	--	130.00		
	Cross Road 1 From temple		1	220.00	--	--	220.00		
	Cross Road 2		1	300.00	--	--	300.00		
	Cross Road 2A		1	40.00	--	--	40.00		

	Cross Road 2B		1	20.00	--	--	20.00		
	Cross Road 2C		1	50.00	--	--	50.00		
	Cross Road 3		1	165.00	--	--	165.00		
	Cross Road 4		1	65.00	--	--	65.00		
							1280.00	**1327.12**	**1698714.00**
	Basic rate	1252.00							
	Area Weightage6%	75.12							
	Final Rate	**1327.12**							
22	KSRB 2.6 : Providing and filling sand in foundation upto plinth to required depth for sub soil treatment including watering ramming with all lead and lift complete as per specifications.specification. No. KBS 2.10.2(P.No.6,sI.No.2.13 of PW, P&IWTD SR 2018-19)								
		Cum							
	Railway mens colony								
	1st Main Road		1	290.00	0.30	0.40	34.80		
	2nd Main Road		1	130.00	0.30	0.40	15.60		
	Cross Road 1 From temple		1	220.00	0.30	0.40	26.40		
	Cross Road 2		1	300.00	0.30	0.40	36.00		
	Cross Road 2A		1	40.00	0.30	0.40	4.80		
	Cross Road 2B		1	20.00	0.30	0.40	2.40		
	Cross Road 2C		1	50.00	0.30	0.40	6.00		
	Cross Road 3		1	165.00	0.30	0.40	19.80		
	Cross Road 4		1	65.00	0.30	0.40	65.00		
							210.80	**2183.60**	**460302.88**
	Basic rate	2060.00							
	Area Weightage6%	123.60							
	Final Rate	**2183.60**							
23	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(P.No.4, I.No.2.11 of PW, P&IWTD SR 2018-19)								
		Cum							
	Railway mens colony								
	1st Main Road		1	290.00	0.30	0.30	26.10		
	2nd Main Road		1	130.00	0.30	0.30	11.70		
	Cross Road 1 From temple		1	220.00	0.30	0.30	19.80		
	Cross Road 2		1	300.00	0.30	0.30	27.00		
	Cross Road 2A		1	40.00	0.30	0.30	3.60		
	Cross Road 2B		1	20.00	0.30	0.30	1.80		
	Cross Road 2C		1	50.00	0.30	0.30	4.50		
	Cross Road 3		1	165.00	0.30	0.30	14.85		
	Cross Road 4		1	65.00	0.30	0.30	5.85		
							115.20	**128.26**	**14775.55**
	Basic rate	121.00							
	Area Weightage6%	7.26							
	Final Rate	**128.26**							
24	KSRB13-3.6 : Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6.(P.No.92, I.No.13.15 of PW, P&IWTD SR 2018-19)								
		Rmtr							
	Railway mens colony								
	1st Main Road		21	1.60	--	--	33.60		
	2nd Main Road		11	1.60	--	--	17.60		
	Cross Road 1 From temple		20	1.60	--	--	32.00		
	Cross Road 2		27	1.60	--	--	43.20		

	Cross Road 2A		4	1.60	--	--	6.40		
	Cross Road 2B		2	1.60	--	--	3.20		
	Cross Road 2C		5	1.60	--	--	8.00		
	Cross Road 3		15	1.60	--	--	24.00		
	Cross Road 4		6	1.60	--	--	9.60		
							177.60	**411.28**	73043.3
	Basic rate	388.00							
	Area Weightage6%	23.28							
	Final Rate	411.28							

	A.Total Construction Cost	26231113.85
	B.12% GST to Construction Cost=A*12%	3147733.6
25	**C.Sub Total=A+B**	29378847.5
26	**D.Cost towards DPR Charges=A*1%**	262311.1
27	**E.Cost towards PMC / Third Party inspection LS=A*1%**	262311.1
28	**F.Sub Total=(D+E)**	524622.2
29	**G.18% GST on DPR and PMC Charges=F*18%**	94432.0
	H.Sub Total=C+F+G	29997901.8
30	**I.Miscellaneous and rounding off**	2098.2
	J.Total=E+F	30000000.0

Certificate.

1 The rates adopted based on the PWD SR, Bangalore circle for year 2018-19.
2 The provisions made in the estimate are necessary and essential.
3 The workspot was inspected and work is found to be necessary.
4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

TEJUS CONSULTANTS

Assistant Engineer | Assistant Executive Engineer | Executive Engineer 19/2/19

Technical Sanction
Accorded For RS 300.00 lakhs
Head of A/C. P-3522
CER NO : 262/18-19 Dt: 15.02.19

TA | CE (YNK)

Administrative Approval
Accorded For RS. 300.00 Lakhs
Head of A/C. P-3522
CER NO : SI Dt 1-8/3/19

E.E. (Project) 8/3